

1	M S R Y L R P P N T S L F V R N V A D D T R S E D L R R E F	399781
1	M S R Y L R P P N T S L F V R N V A D D T R S E D L R R E F	GI 2961149
31	G R Y G P I V D V Y V P L D F Y T R R P R G F A Y V Q F E D	399781
31	G R Y G P I V D V Y V P L D F Y T R R P R G F A Y V Q F E D	GI 2961149
61	V R D A E D A L H N L D R K W I C G R Q I E I Q F A Q G D R	399781
61	V R D A E D A L H N L D R K W I C G R Q I E I Q F A Q G D R	GI 2961149
91	K T P N Q M K A K E G R N V Y S S S R Y D D Y D R Y R R S R	399781
91	K T P N Q M K A K E G R N V Y S S S R Y D D Y D R Y R R S R	GI 2961149
121	S R S Y E R R R S R S R S F D Y N Y R R S Y S P R N S R P T	399781
121	S R S Y E R R R S R S R S F D Y N Y R R S Y S P R N S R P T	GI 2961149
151	G R P R R R E A I P T M I D Q T A A G I P S T V L L T T L Q	399781
151	G R P R R S -	GI 2961149
181	E R S E S G K R T K E G Q F K R P K G G W K V L Q Y E - - Y	399781
157	- R S H S D N - - - - - D R P N C S W N T - Q Y S S A Y	GI 2961149
209	C T N I L T L V	399781
178	Y T S - - R K I	GI 2961149

FIGURE 1

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1	MNSQPQTRSPFFQRPQIQPPRA	TIPNSSPS	1252206		
1	MSGARTASTP	TPPQQTGGG	GI 2660712		
31	IRPGAQTPTA	VYQANQHIMMVNHLPMYPV	1252206		
19	LEPQANGETP	QVAVIVR	GI 2660712		
61	PQGPQYCI	PQYRHSGPPYVGP	PQKYPVQPP	1252206	
36	PD	DRSQGAIIADR	PG	GI 2660712	
91	GPFPFY	PGPGDFFPNAYGT	FPYPSQPVYQ	1252206	
51	LP	GEHS	---	GI 2660712	
121	SAPIIVPT	QQQPPPAKREKKTIRIRDPNQ	G	1252206	
58	PS	ESQPPSSPSPTPSPSPVLE	P---	GI 2660712	
151	GKDI	TEEIMSGGGSRNP	TPPIGRPTSTPTP	1252206	
79	GS	EPNLAVLSIPGDTMT	T	GI 2660712	
181	PQLPSQV	PEHSPVVYGTVE	SAHLAAS	TPVT	1252206
97	IQMS	VEESTPISRET	GEPLYRLS	---	GI 2660712

FIGURE 2A

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211	AASDQKQEEKPKPDPVLKSPSPVLRLLVLSG	1252206
119	- - - - - PEP T P L - - - AEP I L E V E V T L	GI 2660712
241	EKKEQEGQTSETTAIVSIAELPLPPSP TTV	1252206
136	SKPVPESSEFSSS - - - - - P L Q A P - - - -	GI 2660712
271	SSVARS T I A A P T S S A L S S Q P I F T T A I D D R C	1252206
153	T P L A S H T V E I H E P N G M V P S E D L E P E V E S S P	GI 2660712
301	ELSSPREDTIPIPSLTSCTETSDPLPTNEN	1252206
183	ELAPP - - - - - A C P S E S - - - - -	GI 2660712
331	DDDI CKKPCSVAPNDIPLVSSSTNLINEING	1252206
195	- - - - - P V P I A P T A Q P - - - - -	GI 2660712
361	VSEKLSAT E S I V E I V K Q E V L P L T L E L E I L E	1252206
205	- - - - - E E L L N G A P S P P A V D L S P V S	GI 2660712
391	N P P E E M K L E C I P A P I T P S T V P S F P P T P P	1252206
224	E P E E Q A K E - - - V T A S V A P P T I P S A T P A T A P S	GI 2660712

FIGURE 2B

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421	P A S P P H T P V I V P A A A T V S S P S A A I T V Q R V	1252206
252	A T S P A Q E E E M E E E E E G E A G E A G E A E S E	GI 2660712
451	L E E D E S I R T C L S E D A K E I Q N K I E V E A D G Q T	1252206
282	K G G E E L - - - L P P E S T P I P A N L - - - - -	GI 2660712
481	E E I L D S Q N L N S R R S P V P A Q I A I T V P K T W K K	1252206
300	- - - - S Q N L E A - - - A A A T Q V A V S V P K R R R K	GI 2660712
511	P K D R T R T E E M L E A E L E L K A E E E L S I D K V L	1252206
322	I K E L N K K - - E A V G D L L D A F K E A N P A V P E V -	GI 2660712
541	E S E Q D K M S Q G F H P E R D P S D L K K V K A V E E N G	1252206
349	- - - E N Q P P A G S N P G P E S E G - - - S G V P P R P	GI 2660712
571	E E A E P V R N G A E S - V S E G E G I D A N S G S T D S S	1252206
372	E E A D E T W D S K E D K I H N A E N I Q P G E Q K - - -	GI 2660712
600	G D G V T F P F K P E S W K P T D T E G K K Q Y D R E F L L	1252206
398	- - - - Y E Y K S D Q W K P P N L E E K K R Y D R E F L L	GI 2660712

FIGURE 2C

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630	D	F	Q	F	M	P	A	C	I	Q	K	P	E	G	L	P	I	S	D	V	V	L	D	K	I	N	O	P	K	1252206		
423	G	F	Q	F	I	F	A	S	M	Q	K	P	E	G	L	P	H	I	S	D	V	V	L	D	K	A	N	-	-	K	GI 2660712	
660	L	P	M	R	T	L	D	P	R	I	L	P	R	-	-	-	G	P	D	F	T	P	A	F	A	D	F	G	R	Q	1252206	
451	T	P	L	R	P	L	D	P	T	R	L	Q	G	I	N	C	G	P	D	F	T	P	S	F	A	N	L	G	R	T	GI 2660712	
687	T	P	G	G	R	G	V	P	-	-	-	-	-	-	-	-	L	L	N	V	G	S	R	R	S	Q	1252206					
481	T	L	S	T	R	G	P	P	R	G	G	P	G	G	E	L	P	R	G	P	Q	A	G	L	G	P	R	R	S	Q	GI 2660712	
705	P	G	Q	R	R	E	P	R	K	I	I	-	T	V	S	V	K	E	D	V	H	L	K	K	A	E	N	A	W	K	1252206	
511	Q	G	P	R	K	E	P	R	K	I	I	A	T	V	L	M	T	E	D	I	K	L	N	K	A	E	K	A	W	K	GI 2660712	
734	P	S	Q	K	R	-	-	-	-	D	S	Q	A	D	D	P	E	N	I	K	T	Q	E	L	F	R	K	V	R	1252206		
541	P	S	S	K	R	T	A	A	D	K	D	R	G	E	E	D	A	D	G	S	K	T	Q	D	L	F	R	V	R	GI 2660712		
759	S	I	L	N	K	L	T	P	Q	M	F	N	Q	L	M	K	Q	V	S	G	L	T	V	D	T	E	E	R	L	K	1252206	
571	S	I	L	N	K	L	T	P	Q	M	F	Q	Q	L	M	K	Q	V	T	Q	L	A	I	D	T	E	E	R	L	K	GI 2660712	
789	G	V	I	D	L	V	F	F	E	K	A	I	D	E	P	S	F	S	V	A	Y	A	N	M	C	R	C	L	V	T	L	1252206
601	G	V	I	D	L	I	F	F	E	K	A	I	S	E	P	N	F	S	V	A	Y	A	N	M	C	R	C	L	M	A	L	GI 2660712

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FIGURE 2D

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819	K	V	P	M	A	D	K	P	G	N	T	V	N	F	R	K	L	L	L	N	R	C	Q	K	E	F	E	K	D	K	1252206
631	K	V	P	T	E	K	P	T	V	T	V	N	F	R	K	L	L	L	L	N	R	C	Q	K	E	F	E	K	D	K	GI 2660712
849	A	D	D	V	F	E	K	K	Q	K	E	L	E	A	A	S	A	P	E	E	R	T	R	L	H	D	E	L	E	1252206	
661	D	D	D	E	V	F	E	K	K	Q	K	E	M	D	E	A	A	T	A	E	E	R	G	R	L	K	E	E	L	E	GI 2660712
879	E	A	K	D	K	A	R	R	R	S	I	G	N	I	K	F	I	G	E	L	F	K	L	K	M	L	T	E	A	I	1252206
691	E	A	R	D	I	A	R	R	R	S	L	G	N	I	K	F	I	G	E	L	F	K	L	K	M	L	T	E	A	I	GI 2660712
909	M	H	D	C	V	V	K	L	L	K	N	H	D	E	E	S	L	E	C	L	C	R	L	L	T	T	I	G	K	D	1252206
721	M	H	D	C	V	V	K	L	L	K	N	H	D	E	E	S	L	E	C	L	C	R	L	L	T	T	I	G	K	D	GI 2660712
939	L	D	F	E	K	A	K	P	R	M	D	Q	Y	F	N	Q	M	E	K	I	V	K	E	K	K	T	S	S	R	I	1252206
751	L	D	F	E	K	A	K	P	R	M	D	Q	Y	F	N	Q	M	E	K	I	I	K	E	K	K	T	S	S	R	I	GI 2660712
969	R	F	M	L	Q	D	V	I	D	L	R	L	C	N	W	V	S	R	R	A	D	Q	G	P	K	T	I	E	Q	I	1252206
781	R	F	M	L	Q	D	V	L	D	L	R	G	S	N	W	V	P	R	R	G	D	Q	G	P	K	T	I	D	Q	I	GI 2660712
999	H	K	E	A	K	I	E	E	Q	E	E	Q	R	K	V	Q	Q	L	M	T	K	-	-	E	K	R	R	-	-	1252206	
811	H	K	E	A	E	M	E	E	H	R	E	H	I	K	V	Q	Q	L	M	A	K	G	S	D	K	R	R	G	P	GI 2660712	

FIGURE 2E

1024 - - P G V Q R - - - - V D E G G W N T V Q G A K N S R V L D 1252206
 841 P G P P I S R G L P L V D D G G W N T V P I S K G S R P I D GI 2660712

1048 P S K F L K I T K P - T I D E K I Q L V P K A Q L G S W G K 1252206
 871 T S R L T K I T K P G S I D S N N Q L F A P G G R L S W G K GI 2660712

1077 G S S G G - - A K A S E T - - D A L R S S A S S L N R F S A 1252206
 901 G S S G G S G A K P S D A A S E A A R P A T S T L N R F S A GI 2660712

1103 L Q P P A P S G S T P S T P V E F D S R R T L T S R G S M G 1252206
 931 L Q Q A V P T E S T - - - - - D N R R V V Q - R S S L S GI 2660712

1133 R E K N D K P L P S A T A R P N T F M R G G S S K D L L D N 1252206
 953 R E R G E K A - G D R G D R L E R S E R G G D R G D R L D R GI 2660712

1163 Q S Q E E Q R R - - - - E M L E T V K Q L T G G V D V E R N 1252206
 982 A R T P A T K R S F S K E V E E R S R E R P S Q P E G L R K GI 2660712

1189 S T E - - A E R N K T R E S A K P E I S A M S A H D - K A A 1252206
 1012 A A S L T E D R D R G R D A V K R E A A L P P V S P L K A A GI 2660712

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FIGURE 2F

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1216	L	S	E	E	E	L	E	R	K	S	K	S	I	I	D	E	F	L	H	I	N	D	F	K	E	A	M	Q	C	V	1252206
11042	L	S	E	E	E	L	E	K	K	S	K	A	I	I	E	E	Y	L	H	L	N	D	M	K	E	A	V	Q	C	V	GI 2660712
11246	E	E	L	N	A	Q	G	L	L	H	V	F	V	R	V	G	V	E	S	T	L	E	R	S	Q	I	T	R	D	H	1252206
11072	Q	E	L	A	S	P	S	L	L	F	I	F	V	R	H	G	V	E	S	T	L	E	R	S	A	I	A	R	E	H	GI 2660712
11276	M	G	Q	L	L	Y	Q	L	V	Q	S	E	K	L	S	K	Q	D	F	F	K	G	F	S	E	T	L	E	L	A	1252206
11102	M	G	Q	L	L	H	Q	L	L	C	A	G	H	L	S	T	A	Q	Y	Y	Q	G	L	Y	E	I	L	E	L	A	GI 2660712
11306	D	D	M	A	I	D	I	P	H	I	W	L	Y	L	A	E	L	V	T	P	M	L	K	E	G	G	I	S	M	R	1252206
11132	E	D	M	E	I	D	I	P	H	V	W	L	Y	L	A	E	L	V	T	P	I	L	Q	E	G	G	V	P	M	G	GI 2660712
11336	E	L	T	I	E	F	S	K	P	L	L	P	V	G	R	A	G	V	L	L	S	E	I	L	H	L	L	C	K	Q	1252206
11162	E	L	F	R	E	I	T	K	P	L	R	P	L	G	K	A	A	S	L	L	E	I	L	G	L	L	C	K	S	GI 2660712	
1366	M	S	H	K	K	V	G	A	L	W	R	E	A	D	L	S	W	K	D	F	L	P	E	G	E	D	V	H	N	F	1252206
11192	M	G	P	K	K	V	G	T	L	W	R	E	A	G	L	S	W	K	E	F	L	P	E	G	Q	D	I	G	A	F	GI 2660712
1396	L	L	E	Q	K	L	D	F	I	E	S	D	S	P	C	S	S	E	A	L	S	K	K	E	L	S	A	E	E	L	1252206
1222	V	A	E	Q	K	V	E	Y	T	L	G	E	-	-	-	E	S	E	A	P	G	Q	R	A	L	P	S	E	E	L	GI 2660712

FIGURE 2G

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1426	Y	K	R	L	E	K	L	I	I	E	D	K	A	N	D	E	Q	I	F	D	W	V	E	A	N	L	D	E	I	Q	1252206
1249	N	R	Q	L	E	K	L	L	K	E	G	-	S	S	N	Q	R	V	F	D	W	I	E	A	N	L	S	E	Q	Q	GI 2660712
1456	M	S	S	P	T	F	L	R	A	L	M	T	A	V	C	K	A	I	I	A	D	S	S	T	F	R	V	D	T	1252206	
1278	I	V	S	N	T	L	V	R	A	L	M	T	A	V	C	Y	S	A	I	I	F	E	T	P	-	L	R	V	D	V	GI 2660712
1486	A	V	I	K	Q	R	V	P	I	L	L	K	Y	L	D	S	D	T	E	K	E	L	Q	A	L	Y	A	L	Q	A	1252206
1307	A	V	L	K	A	R	A	K	L	L	Q	K	Y	L	-	C	D	E	Q	K	E	L	Q	A	L	Y	A	L	Q	A	GI 2660712
1516	S	I	V	K	L	D	Q	P	A	N	L	L	R	M	F	F	D	C	L	Y	D	E	E	V	I	S	E	D	A	F	1252206
1336	L	V	V	T	L	E	Q	P	P	N	L	L	R	M	F	F	D	A	L	Y	D	E	D	V	V	K	E	D	A	F	GI 2660712
1546	Y	K	W	E	S	S	K	D	P	A	E	Q	N	G	K	G	V	A	L	K	S	V	T	A	F	F	T	W	L	R	1252206
1366	Y	S	W	E	S	S	K	D	P	A	E	Q	Q	G	K	G	V	A	L	K	S	V	T	A	F	F	K	W	L	R	GI 2660712
1576	E	A	E	E	E	S	E	D	N																					1252206	
1396	E	A	E	E	E	S	D	H	N																					GI 2660712	

FIGURE 2H

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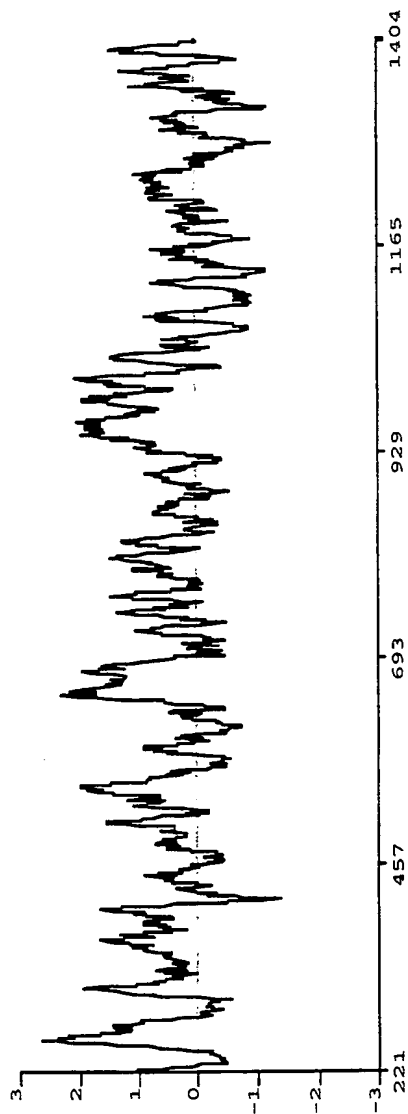


FIGURE 3A

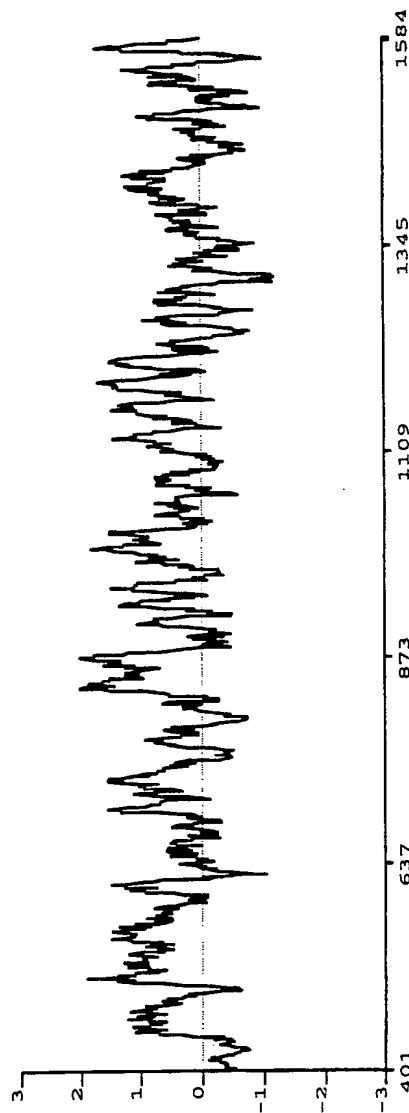


FIGURE 3B

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FIGURE 4A

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15 L L E E F L S L Q M E I L T E L G L H F R V L D M P T Q E L 2950994
181 E L E E F K N I E V D L F R R L G L N F R L L D M P P C E L GI 2440051

45 G L P A Y R K F D I E A W M P G R G R F G E V T S A S N C T 2950994
211 G A P A Y Q K Y D I E A W M P G R Q M W G E I S S C S N C T GI 2440051

75 D F Q S R R L H I M F Q T E A - G E L Q F A H T V N A T A C 2950994
241 D Y Q A R R L G I R Y R R S A D G Q I L H A H T I N G T A T GI 2440051

104 A V P R L L I A L L E S N Q Q K D G S V L V P P A L Q S Y L 2950994
271 A I P R L L I A L L E S Y Q - K E D G I E I P A V L R P F M GI 2440051

134 G T D R - I T A P T H V P - - - - L Q Y I G P N Q P R K P G 2950994
300 D N Q E L I T R N K R I P E T K L V K F I K A GI 2440051

159 L P G Q P A V S 2950994
322 GI 2440051

FIGURE 4B

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[illegible]

FIGURE 5A

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181	E	D	L	Q	K	M	K	Q	F	A	Q	D	F	V	M	H	T	D	V	R	T	C	S	S	S	T	S	V	I	A	3461657	
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GI 1808648	
211	D	L	Q	E	D	E	D	G	V	Y	F	S	S	Y	G	H	Y	G	I	H	E	E	M	L	K	D	K	I	R	T	3461657	
25	-	-	-	-	-	-	-	-	-	-	Y	F	D	S	Y	A	H	F	G	I	H	E	E	M	L	K	D	E	V	R	T	GI 1808648
241	E	S	Y	R	D	F	I	Y	Q	N	P	H	I	F	K	D	K	V	V	L	D	V	G	C	G	T	G	I	L	S	3461657	
46	L	T	Y	R	N	S	M	F	H	N	R	H	L	F	K	D	K	V	V	L	D	V	G	S	G	T	G	I	L	C	GI 1808648	
271	M	F	A	A	K	A	G	A	K	K	V	L	G	V	D	Q	S	E	I	L	Y	Q	A	M	D	I	I	R	L	N	3461657	
76	M	F	A	A	K	A	G	A	R	K	V	I	G	I	V	C	S	S	I	S	D	Y	A	V	K	I	V	K	A	N	GI 1808648	
301	K	L	E	D	T	I	T	L	I	K	G	K	I	E	E	V	H	L	P	V	E	K	V	D	V	I	I	S	E	W	3461657	
106	K	L	D	H	V	V	T	I	I	K	G	K	V	E	E	V	E	L	P	V	E	K	V	D	I	I	I	S	E	W	GI 1808648	
331	M	G	Y	F	L	L	F	E	S	M	L	D	S	V	L	Y	A	K	N	K	Y	L	A	K	G	S	V	Y	P	3461657		
136	M	G	Y	C	L	F	Y	E	S	M	L	N	T	V	L	Y	A	R	D	K	W	L	A	P	D	G	L	I	F	P	GI 1808648	

FIGURE 5B

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361	D	I	C	T	I	S	L	V	A	V	S	D	V	N	K	H	A	D	R	I	A	F	W	D	D	V	Y	G	F	K	3461657		
166	D	R	A	T	L	Y	V	T	A	I	E	D	R	Q	Y	K	D	Y	K	I	H	W	E	N	V	Y	G	F	D	GI 1808648			
391	M	S	C	M	K	K	A	V	I	P	E	A	V	V	E	V	L	D	P	K	T	L	I	S	E	P	C	G	I	K	3461657		
196	M	S	C	I	K	D	V	A	I	K	E	P	L	V	D	V	D	P	K	Q	L	V	T	N	A	C	L	I	K	GI 1808648			
421	H	I	D	C	H	T	S	I	S	D	L	E	F	S	S	D	F	T	L	K	I	T	R	T	S	M	C	T	A	3461657			
226	E	V	D	I	Y	T	V	K	V	E	D	L	T	F	T	S	P	F	C	L	Q	V	K	R	N	D	Y	V	H	A	GI 1808648		
451	I	A	G	Y	F	D	I	Y	F	E	K	N	C	H	N	R	V	V	F	S	T	G	P	Q	S	T	K	T	H	W	3461657		
256	L	V	A	Y	F	N	I	E	F	T	R	-	C	H	K	R	T	G	F	S	T	S	P	E	S	P	Y	T	H	W	GI 1808648		
481	K	Q	T	V	F	L	L	E	K	P	F	S	V	K	A	G	E	A	L	K	G	K	V	T	V	H	K	N	K	K	3461657		
285	K	Q	T	V	F	Y	M	E	D	Y	L	T	V	K	T	G	E	E	I	F	G	T	I	G	M	R	P	N	A	K	GI 1808648		
511	D	P	R	S	L	T	V	T	L	T	L	N	-	-	-	-	-	-	-	-	-	-	-	N	S	T	Q	T	Y	G	L	Q	3461657
315	N	N	R	D	L	D	F	T	I	D	L	D	F	K	G	Q	L	C	E	L	S	C	S	T	D	Y	R	M	R	GI 1808648			

FIGURE 5C